AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A combustor for a gas turbine comprising:

an annular array of outer fuel nozzles arranged about a center axis of the combustor;

a center fuel nozzle aligned with the center axis, wherein the center fuel nozzle is substantially smaller than each of the outer fuel nozzles and includes a bluff body along a center axis of the center fuel nozzle, wherein

said combustor further comprises a pre-mix combustor operating mode in which the center nozzle receives a fuel rich air-fuel mixture as compared to a fuel mixture applied to the outer fuel nozzles.

- 2. (Original) A combustor as in claim 1 wherein the outer fuel nozzles are each of a similar size.
- 3. (Currently Amended) A combustor as in claim 1 A combustor for a gas turbine comprising:

an annular array of outer fuel nozzles arranged about a center axis of the combustor;

a center fuel nozzle aligned with the center axis, wherein the center fuel nozzle is substantially smaller than each of the outer fuel nozzles, wherein

said combustor further comprises a pre-mix combustor operating mode in which the center nozzle receives a fuel rich air-fuel mixture as compared to a fuel mixture applied to the outer fuel nozzles, wherein the center nozzle further comprises two concentric tubes.

4. (Original) A combustor as in claim 1 wherein the center nozzle further comprises a plurality of concentric tubes having outlet ends, and said ends form a bluff body for flame stabilization in a combustion zone of the combustor.

5. (Currently Amended) A combustor as in claim 1 for a gas turbine comprising:

an annular array of outer fuel nozzles arranged about a center axis of the combustor;

a center fuel nozzle aligned with the center axis, wherein the center fuel nozzle is substantially smaller than each of the outer fuel nozzles, wherein

said combustor further comprises a pre-mix combustor operating mode in which the center nozzle receives a fuel rich air-fuel mixture as compared to a fuel mixture applied to the outer fuel nozzles,

wherein the center nozzle further comprises an outer tube, wherein an end lip of said outer tube is extended to form a recirculation zone for a flame front adjacent an end of the center nozzle.

6. (Currently Amended) A combustor as in claim-1 A combustor for a gas turbine comprising:

an annular array of outer fuel nozzles arranged about a center axis of the combustor;

a center fuel nozzle aligned with the center axis, wherein the center fuel nozzle is substantially smaller than each of the outer fuel nozzles, wherein

said combustor further comprises a pre-mix combustor operating mode in which the center nozzle receives a fuel rich air-fuel mixture as compared to a fuel mixture applied to the outer fuel nozzles.

wherein the center nozzle further comprises a bluff body coaxial to the nozzle and recessed with respect to an outer annular lip of the nozzle.

7. (Currently Amended) A combustor as in claim 1 A combustor for a gas turbine comprising:

an annular array of outer fuel nozzles arranged about a center axis of the combustor;

a center fuel nozzle aligned with the center axis, wherein the center fuel nozzle is substantially smaller than each of the outer fuel nozzles, wherein

said combustor further comprises a pre-mix combustor operating mode in which the center nozzle receives a fuel rich air-fuel mixture as compared to a fuel mixture applied to the outer fuel nozzles,

wherein the center nozzle includes fuel passages consisting of a premix gas fuel passage and a diffusion gas passage, and said outer fuel nozzles each include fluid passages comprising a premix gas fuel passage and a diffusion gas passage.

- 8. (Original) A combustor as in claim 1 wherein the center nozzle has an outer diameter 85% or less than a diameter of each of the outer fuel nozzles.
- 9. (Original) A combustor as in claim 1 wherein the combustor is a single stage combustor.
 - 10. (Currently Amended) A combustor for a gas turbine comprising:

an annular array of outer fuel nozzles arranged about a center axis, wherein each of said outer fuel nozzle comprises a gaseous fuel passage and a liquid fuel passage,

a center fuel nozzle aligned with the center axis and having a fuel passage consisting of includes at least one gaseous fuel passage, wherein the center fuel nozzle is substantially smaller than each of the outer fuel nozzles, and

a pre-mix combustor operating mode in which the center nozzle receives a fuel rich airfuel mixture as compared to a fuel mixture applied to the outer fuel nozzles.

- 11. (Original) A combustor as in claim 10 wherein the outer fuel nozzles are each of a similar size.
- 12. (Original) A combustor as in claim 10 wherein the center nozzle comprises two concentric tubes and said gaseous fuel passage is between said concentric tubes.
- 13. (Original) A combustor as in claim 10 wherein the center nozzle further comprises a bluff body end for flame stabilization in a combustion zone of the combustor.
- 14. (Original) A combustor as in claim 10 wherein said center nozzle forms a pilot light for the combustor.
- 15. (Original) A combustor as in claim 10 wherein the center nozzle further comprises an outer tube, wherein an end lip of said outer tube is extended to form a recirculation zone for a flame front adjacent an end of the center nozzle.
- 16. (Original) A combustor as in claim 10 wherein the center nozzle further comprises a bluff body coaxial to the nozzle and recessed with respect to an outer annular lip of the center nozzle.
- 17. (Original) A combustor as in claim 10 wherein at least one gaseous fuel passage in the center nozzle comprises a premix gas fuel passage and a diffusion gas passage, and said outer fuel nozzles each include fluid passages comprising a premix gas fuel passage and a diffusion gas passage.

18. (Original) A combustor as in claim 10 wherein the combustor is a single stage

combustor.

19. (Withdrawn) A method for combustion in a combustor in a gas turbine, wherein said

combustor comprises an annular array of outer fuel nozzles arranged about a center axis and a

small center fuel nozzle aligned with the center axis, said method comprising:

a. fueling the center fuel nozzle with a fuel-rich mixture of gaseous fuel and air and

fueling the outer fuel nozzles with a fuel-lean mixture of fuel and air;

b. igniting the fuel-rich mixture injected by the center fuel nozzle while the fuel-lean

mixture injected by the outer combustors is insufficient to sustain ignition;

c. stabilizing a flame on the center fuel nozzle while the outer fuel nozzles inject the

fuel-lean mixture;

d. staging fuel to the outer nozzles by increasing a fuel ratio of the fuel-lean mixture,

and

e. after the outer nozzles sustain ignition, reducing fuel applied to the center nozzle.

20. (Withdrawn) A method as in claim 19 wherein the outer nozzles and center nozzles

operate on substantially similar fuel-air mixtures after step (e).

21. (Withdrawn) A method as in claim 19 wherein step (b) is performed with a premix

gas fuel injected by the center nozzle and steps (c) and (d) are preformed with a diffusion gas

injected by the outer fuel nozzles.

22. (Withdrawn) A method as in claim 19 further comprising stabilizing a flame in front

of the center nozzle by a bluff body recessed within the center nozzle.

- 6 -

1083748

23. (Withdrawn) A method as in claim 19 wherein a fuel rate applied to the center fuel nozzle and a fuel rate applied to each of the outer fuel nozzles are substantially similar during step (a).

24 to 26 (Cancelled).